



US Army Corps
of Engineers®
Engineer Research and
Development Center

Regional Sediment Management Program

Hawaii Regional Sediment Management

Haleiwa Region, Oahu



Description	The Haleiwa Region is located on the north shore of the island of Oahu, Hawaii. The region incorporates both a federally authorized navigation project and erosion control project. Federally authorized general navigation features (GNFs) at the Haleiwa Small Boat Harbor consist of two breakwaters (80 feet long and 100 feet long) and a revetted mole (1,310 feet long). GNFs for the harbor also include an entrance channel (700 feet long, 12 feet deep and 100 to 120 feet wide) and inner basin (8 feet deep). The Haleiwa Beach Erosion Control Project includes a groin (520 feet long), offshore breakwater (160 feet long) and beach fill. Coastal engineering investigations will be conducted to identify sediment pathways and quantify the region sediment budget. The ultimate goal is to develop methods to reduce dredging requirements at the harbor while minimizing impacts to adjacent shorelines.
Issue/Challenges	The Haleiwa Beach shoreline is currently receding. The seawall fronting the park comfort station has been undermined and has failed along portions of its length. The harbor may be contributing to the erosion problems being experienced at Haleiwa Beach. Beneficial use of dredged material from the harbor coupled with sand backpassing would help to mitigate erosion impacts. State of Hawaii Department of Health Clean Water Branch is reluctant to issue a permit to backpass sand.
Successes Lessons Learned	N/A - new region N/A - new region
Expected Products	<ul style="list-style-type: none">• Water circulation and wave transformation model results• Regional sediment budget• Identification of potential RSM projects in the region• Preparation of a Technical Note documenting of study findings• Web site update on findings and lessons learned
Potential Users	USACE Honolulu District, State of Hawaii Department of Land and Natural Resources Office of Conservation and Coastal Lands, City & County of Honolulu, Haleiwa Harbor users and Haleiwa Beach users.
Projected Benefits	A systems approach may ultimately result in less dredging at Haleiwa Harbor and suitable beach widths along Haleiwa Beach.
Leveraging Opportunities	The City and County of Honolulu studies in the region will be used as input to the RSM investigations.
Points of Contact	Project Manager: Nani Shimabuku, lorayne.p.shimabuku@usace.army.mil , 808-835-4030 Technical Lead: Thomas D. Smith, P.E., thomas.d.smith@usace.army.mil , 808-835-4141
Participating Partners	The non-federal sponsor is the State of Hawaii Department of Land and Natural Resources Office of Conservation and Coastal Lands.